

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

GP1744/18  
PATENT  
APPLICATION

Inventor(s): SUGIYAMA et al.

Appln. No.: 09

Series Code ↑

098,730

Serial No. ↑

Group Art Unit 1744

Examiner: Tung, T.

Atty. Dkt. PM

254782

M#

U39817-TS

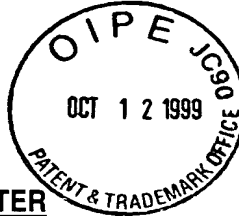
Client Ref

Filed: June 18, 1998

Asst. Commissioner of Patents

Washington, D.C. 20231

Sir:

**REPLY/AMENDMENT/LETTER**Appln. Title: MULTILAYERED AIR-FUEL RATIO  
SENSORDate: October 12, 1999  
October 9 = Saturday  
October 10 = Sunday  
October 11 = Holiday

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

**FEE REQUIREMENTS FOR CLAIMS AS AMENDED**

1. "Small Entity" statement(s) filed

- ☐ previously  
☐ herewith

(No.)

	Claims remaining after amendment	Highest number previously paid for	Present Extra	Large/Small Entity	Additional Fee	Fee Code
2. Total Effective Claims	4	**minus 20	0	x \$18/\$9 =	+ 0	103/203
3. Independent Claims	1	***minus 3	0	x \$78/\$39 =	+ 0	102/202
4. If amendment enters proper multiple dependent claim(s) into this application for first time (leave blank if this is a reissue application).....add				+ \$260/\$130 =	+ 0	104/204
5. Original due Date: September 9, 1999	<input type="checkbox"/> NONE					
6. Petition is hereby made to extend the original due date to cover the date this response is filed for which the requisite fee is attached	(1 mo)	\$110/\$55 =				115/215
	(2 mos)	\$380/\$190 =	+ 110.00			116/216
	(3 mos)	\$870/\$435 =				117/217
7. Enter any previous extension fee paid since above original due date and subtract			-			
8.	Extension Fee Attached			+ 110		
9. If Terminal Disclaimer attached, add Rule 20(d) official fee .....			+ \$110/\$55 =	+ 0		148/248
10. If IDS attached requires Official Fee, .....			+ \$240 =			126
or if Rule 97(d) Petition .....			+ \$130 =			122
11. After-Final Request Fee per rules 129(a) and 17(r) .....			+ \$760/380 =	+ 0		146/246
12. No. of additional inventions for examination per Rule 129(b) .....			x \$760/380 ea =	+ 0		149/249
13. Petition fee for						
14.	TOTAL FEE ENCLOSED =			\$110		

15. \*If the entry in this space is less than entry in next space, the "Present Extra" result is "0".

16. \*\*If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.

17. \*\*\*If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.

Dep. Acc. # 03-3975

Our Order No. 60388

254782

C#

M#

**CHARGE STATEMENT:** The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown in the heading hereof, for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.

Query: Is appeal deadline now? If so, file Notice of Appeals separately.

Pillsbury Madison & Sutro LLP  
Intellectual Property Group

By Atty: Glenn J. Perry

Reg. No. 28458

1100 New York Avenue, N.W.

Ninth Floor East Tower

Washington, D.C. 20005-3918

Sig:

Fax: (202) 822-0944

Tel: (202) 861-3000

Tel: (202) 861-3070

Atty/Sec: GJP/JMC/mk

NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

D. Lawrence  
#6/c  
10-20-99

In re PATENT APPLICATION of:

Group Art Unit: 1744

**SUGIYAMA et al.**

Examiner: TUNG T.

Appln. No.: 09/098,730

Filed: June 18, 1998

FOR: MULTILAYERED AIR-FUEL RATIO  
SENSOR



**AMENDMENT AND RESPONSE UNDER 35 U.S.C. § 1.111**

Hon. Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Date: October 12, 1999

October 9<sup>th</sup> = Sat.  
October 10<sup>th</sup> = Sun.  
October 11<sup>th</sup> = HOLIDAY

Sir:

Responsive to the June 9, 1999 Office Action, to which the period for response has been extended one month by petition and fee, entry of the following amendments and consideration of the following remarks are respectfully requested.

**IN THE CLAIMS:**

Please amend the claims as follows.

1. (Amended) A multilayered air-fuel ratio sensor having a plurality of stacked layers comprising:
- a plurality of multilayered substrate layers comprising at least [one] two solid electrolytic substrate layers and at least one insulating substrate layer; and
- [at least one heterogeneous] a plurality of boundary layers [interposed between] located at respective boundaries of said [plurality of] multilayered substrate

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